#14

ENTERED   1600

RAW SEQUENCE LISTING   DATE: 03/14/2003
PATENT APPLICATION: **US/09/744,125A**   TIME: 12:04:51

Input Set : **A:\A3233seqlt.txt**
Output Set: **N:\CRF4\03142003\I744125A.raw**

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 3 <110> APPLICANT: Marcireau, Christophe
 4        Multon, Marie-Christine
 5        Polard-Houset, Valerie
 7 <120> TITLE OF INVENTION: MEKK1-INTERACTING FHA PROTEIN
 9 <130> FILE REFERENCE: A3233
11 <140> CURRENT APPLICATION NUMBER: 09/744,125A
12 <141> CURRENT FILING DATE: 2001-01-19
14 <150> PRIOR APPLICATION NUMBER: PCT/EP99/05142
15 <151> PRIOR FILING DATE: 1999-07-21
17 <150> PRIOR APPLICATION NUMBER: 60/093,590
18 <151> PRIOR FILING DATE: 1998-07-21
20 <160> NUMBER OF SEQ ID NOS: 16
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1553
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
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34 ccctggactc accaagcgtg tgaagaagag taaacagcca cttcaggtga ccaaggatct   180
36 gggccgctgg aagcctgcaa atgacctcct gctcataaat gctgtgttgc agaccaacga   240
38 cctgacctcc gtccacctgg gcgtgaaatt cagctgccgc ttcacccttc ggaggtcca    300
40 ggagcgttgg tacgccctgc tctacgatcc tgtcatctcc aagttggcct gtcaggccat   360
42 gaggcagctg cacccagagg ctattgcagc catccagagc aaggccctgt ttagcaaggc   420
44 tgaggagcag ctgctgagca aagtgggatc gaccagccag cccaccttgg agaccttcca   480
46 ggacctgctg cacagacacc ctgatgcctt ctacctggcc cgtaccgcga aggccctgca   540
48 ggcccactgg cagctcatga agcagtatta cctgctggag gaccagacag tgcagccgct   600
50 gcccaaaggg gaccaagtgc tgaacttctc tgatgcagag gacctgattg atgacagtaa   660
52 gctcaaggac atgcgagatg aggtcctgga acatgagctg atggtggctg accggcgcca   720
54 gaagcgagag attcggcagc tggaacagga actgcataag tggcaggtgc tagtggacag   780
56 catcacaggc atgagctctc cggacttcga caaccagaca ctggcagtgc tgcggggccg   840
58 catggtgcgg tacctgatgc gctcgcgtga gatcaccctg ggcagagcaa ccaaggataa   900
60 ccagattgat gtggacctgt ctctggaggg tccggcctgg aagatatccc ggaaacaagg   960
62 tgtcatcaag ctgaagaaca acggtgattt cttcattgcc aatgagggtc gacggcccat  1020
64 ctacatcgat ggacggccgg tgctctgtgg ctccaaatgg cgcctcagca caactctgt   1080
66 ggtggagatc gccagcctgc gattcgtctt cctatcaac caggacctca ttgccctcat  1140
68 cagggctgag gctgccaaga tcacaccaca gtgaggaatg gtggcaggac tcgtgggccc  1200
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72 aaaacctggg cagtgggagg ctcagctgcg ggccattgat ttgagccttt gagggaggat  1320
74 agggctggcc tttgtgaagc cagcagaggc tgagaacctc aggcttccct agatccagag  1380
76 ccctcccca tcttcctctc tctaaaaaca accctacccc ccattctacc ccccattgcc  1440
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83  <210> SEQ ID NO: 2
84  <211> LENGTH: 390
85  <212> TYPE: PRT
86  <213> ORGANISM: Homo sapiens
88  <400> SEQUENCE: 2
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91  1               5                   10                  15
93  Pro Ser Ser Ser Glu Lys Lys Lys Val Ser Lys Ala Pro Ser Thr Pro
94                  20                  25                  30
96  Val Pro Pro Ser Pro Ala Pro Ala Pro Gly Leu Thr Lys Arg Val Lys
97          35                  40                  45
99  Lys Ser Lys Gln Pro Leu Gln Val Thr Lys Asp Leu Gly Arg Trp Lys
100         50                  55                  60
102 Pro Ala Asn Asp Leu Leu Leu Ile Asn Ala Val Leu Gln Thr Asn Asp
103 65                  70                  75                  80
105 Leu Thr Ser Val His Leu Gly Val Lys Phe Ser Cys Arg Phe Thr Leu
106                     85                  90                  95
108 Arg Glu Val Gln Glu Arg Trp Tyr Ala Leu Leu Tyr Asp Pro Val Ile
109                     100                 105                 110
111 Ser Lys Leu Ala Cys Gln Ala Met Arg Gln Leu His Pro Glu Ala Ile
112         115                 120                 125
114 Ala Ala Ile Gln Ser Lys Ala Leu Phe Ser Lys Ala Glu Glu Gln Leu
115         130                 135                 140
117 Leu Ser Lys Val Gly Ser Thr Ser Gln Pro Thr Leu Glu Thr Phe Gln
118 145                 150                 155                 160
120 Asp Leu Leu His Arg His Pro Asp Ala Phe Tyr Leu Ala Arg Thr Ala
121                 165                 170                 175
123 Lys Ala Leu Gln Ala His Trp Gln Leu Met Lys Gln Tyr Tyr Leu Leu
124             180                 185                 190
126 Glu Asp Gln Thr Val Gln Pro Leu Pro Lys Gly Asp Gln Val Leu Asn
127             195                 200                 205
129 Phe Ser Asp Ala Glu Asp Leu Ile Asp Asp Ser Lys Leu Lys Asp Met
130         210                 215                 220
132 Arg Asp Glu Val Leu Glu His Glu Leu Met Val Ala Asp Arg Arg Gln
133 225                 230                 235                 240
135 Lys Arg Glu Ile Arg Gln Leu Glu Gln Glu Leu His Lys Trp Gln Val
136             245                 250                 255
138 Leu Val Asp Ser Ile Thr Gly Met Ser Ser Pro Asp Phe Asp Asn Gln
139             260                 265                 270
141 Thr Leu Ala Val Leu Arg Gly Arg Met Val Arg Tyr Leu Met Arg Ser
142         275                 280                 285
144 Arg Glu Ile Thr Leu Gly Arg Ala Thr Lys Asp Asn Gln Ile Asp Val
145         290                 295                 300
147 Asp Leu Ser Leu Glu Gly Pro Ala Trp Lys Ile Ser Arg Lys Gln Gly
148 305                 310                 315                 320
150 Val Ile Lys Leu Lys Asn Asn Gly Asp Phe Phe Ile Ala Asn Glu Gly
151                 325                 330                 335
153 Arg Arg Pro Ile Tyr Ile Asp Gly Arg Pro Val Leu Cys Gly Ser Lys
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[handwritten:] ≈ 100% 77-462 of Ren protein AF015308

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Input Set : **A:\A3233seqlt.txt**
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154           340              345              350
156 Trp Arg Leu Ser Asn Asn Ser Val Val Glu Ile Ala Ser Leu Arg Phe
157           355              360              365
159 Val Phe Leu Ile Asn Gln Asp Leu Ile Ala Leu Ile Arg Ala Glu Ala
160       370              375              380
162 Ala Lys Ile Thr Pro Gln
163 385              390
165 <210> SEQ ID NO: 3
166 <211> LENGTH: 669
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Sequence of the insert of the plasmid pCM524
173 <400> SEQUENCE: 3
174 gaattcggca cgagcattaa acttatacat gtattttagg tttctgctat ggcaggtatt      60
176 ttttgtttca aagaacgaat ttctgttaaa taaagttata gtagctattg taacaaataa     120
178 atcctcaaat atgagtggtt taacatttat ataaagtgaa aaacataggt taccaattag     180
180 ctgggagctc tcatccaagt ggtgattcag taatccaggc tcctttcatt ttgtggctcc     240
182 tctatattca acatataact actgaagtca ttgctgacag cagcatggga aatcccagta     300
184 ggaatttttt tatgggataa ccttggaagt attgcccaac acttcctcct aaattctatt     360
186 gttcagaaat cagacacaaa atctcactta agcaaggaag cctgaaaaat gtagtagaac     420
188 tgtgtgatta ggagaaagta atgggtttgg tgagtacgta ttagtatctc tcacattggg     480
190 agaaatggct ttttatatgt ttttaagaaa caaattttgt tatctttctc tccattggct     540
192 ccattgcccc agcaaagtag tagaacaaaa ataatatatt ttaaaattta acattatata     600
194 ttaatgataa tgcttaaaca gttgtattta cctgtttcaa aaagaaaaaa aaaaaaaaa      660
196 aaactcgag                                                            669
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 128
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: deduced amino acid sequence of the insert of the plasmid
pCM524
208 <400> SEQUENCE: 4
210 Asn Ser Ala Arg Glu Arg Arg Gln Arg Glu Glu Arg Arg Gln Ser Asn
211 1           5              10              15
213 Leu Gln Glu Val Leu Glu Arg Glu Arg Arg Glu Leu Glu Lys Leu Tyr
214           20              25              30
216 Gln Glu Arg Lys Met Ile Glu Glu Ser Leu Lys Ile Lys Ile Lys Lys
217        35              40              45
219 Glu Leu Glu Met Glu Asn Glu Leu Glu Met Ser Asn Gln Glu Ile Lys
220     50              55              60
222 Asp Lys Ser Ala His Ser Glu Asn Pro Leu Glu Lys Tyr Met Lys Ile
223 65              70              75              80
225 Ile Gln Gln Glu Gln Asp Gln Glu Ser Ala Asp Lys Ser Ser Lys Lys
226           85              90              95
228 Met Val Gln Glu Gly Ser Leu Val Asp Thr Leu Gln Ser Ser Asp Lys
229           100              105              110
231 Val Glu Ser Leu Thr Gly Phe Ser His Glu Glu Leu Asp Asp Ser Trp
232        115              120              125
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Input Set : **A:\A3233seqlt.txt**
Output Set: **N:\CRF4\03142003\I744125A.raw**

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234 <210> SEQ ID NO: 5
235 <211> LENGTH: 669
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Insert of plasmid pCM482
242 <400> SEQUENCE: 5
243 gaattcggca cgagcattaa acttatacat gtattttagg tttctgctat ggcaggtatt      60
245 ttttgtttca aagaacgaat ttctgttaaa taaagttata gtagctattg taacaaataa     120
247 atcctcaaat atgagtggtt taacatttat ataaagtgaa aaacataggt taccaattag     180
249 ctgggagctc tcatccaagt ggtgattcag taatccaggc tcctttcatt ttgtggctcc     240
251 tctatattca acatataact actgaagtca ttgctgacag cagcatggga aatcccagta     300
253 ggaatttttt tatgggataa ccttggaagt attgcccaac acttcctcct aaattctatt     360
255 gttcagaaat cagacacaaa atctcactta agcaaggaag cctgaaaaat gtagtagaac     420
257 tgtgtgatta ggagaaagta atgggtttgg tgagtacgta ttagtatctc tcacattggg     480
259 agaaatggct ttttatatgt ttttaagaaa caaattttgt tatctttctc tccattggct     540
261 ccattgcccc agcaaagtag tagaacaaaa ataatatatt ttaaaattta acattatata     600
263 ttaatgataa tgcttaaaca gttgtattta cctgtttcaa aaagaaaaaa aaaaaaaaaa     660
265 aaactcgag                                                            669
268 <210> SEQ ID NO: 6
269 <211> LENGTH: 50
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Deduced amino acid sequence of insert of plasmid pCM482
276 <400> SEQUENCE: 6
278 Asn Ser Ala Arg Ala Leu Asn Leu Tyr Met Tyr Phe Arg Phe Leu Leu
279 1               5                   10                  15
281 Trp Gln Val Phe Phe Val Ser Lys Asn Glu Phe Leu Leu Asn Lys Val
282             20                  25                  30
284 Ile Val Ala Ile Val Thr Asn Lys Ser Ser Asn Met Ser Gly Leu Thr
285         35                  40                  45
287 Phe Ile
288     50
290 <210> SEQ ID NO: 7
291 <211> LENGTH: 1914
292 <212> TYPE: DNA
293 <213> ORGANISM: Murinae gen. sp.
295 <400> SEQUENCE: 7
296 cgcggagaaa ttgttggatc tggcagtcta ggaatgaatc tcctctcagc ctttaagctc      60
298 acctggtcag aatccttgga tgagcctgtg ggaccgttcc tcctagcccg gtggtttgga     120
300 accagtggct ttgggactgt aagaggatgg acaaagattc tcaggggctg ctagattcat     180
302 ccctgatggc atcaggcact gccagccgct cagaggatga ggagtcactg gcagggcaga     240
304 agcgagcctc ctcccaggcc ttgggcacca tccctaaacg gagaagctcc tccaggttca     300
306 tcaagaggaa gaagttcgat gatgagctgg tggagagcag cctggcaaaa tcttctaccc     360
308 gggcaaaggg ggccagtggg gtggaaccag ggcgctgttc ggggagtgaa ccctcctcca     420
310 gtgagaagaa gaaggtatcc aaagccccca gcactcctgt gccacccagc ccagccccag     480
312 cccctggact caccaagcgt gtgaagaaga gtaaacagcc acttcaggtg accaaggatc     540
314 tgggccgctg gaagcctgca gatgacctcc tgctcataaa tgctgtgttg cagaccaacg     600
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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/744,125A**

DATE: 03/14/2003
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Input Set : **A:\A3233seqlt.txt**
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316 acctgacctc cgtccacctg ggcgtgaaat tcagctgccg cttcaccctt cgggaggtcc   660
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320 tgaggcagct gcacccagag gctattgcag ccatccagag caaggccctg tttagcaagg   780
322 ctgaggagca gctgctgagc aaagtgggat cgaccagcca gcccaccttg gagaccttcc   840
324 aggacctgct gcacagacac cctgatgcct tctacctggc ccgtaccgcg aaggccctgc   900
326 aggcccactg gcagctcatg aagcagtatt acctgctgga ggaccagaca gtgcagccgc   960
328 tgcccaaagg ggaccaagtg ctgaacttct ctgatgcaga ggacctgatt gatgacagta  1020
330 agctcaagga catgcgagat gaggtcctgg aacatgagct gatggtggct gaccggcgcc  1080
332 agaagcgaga gattcggcag ctggaacagg aactgcataa gtggcaggtg ctagtggaca  1140
334 gcatcacagg catgagctct ccggacttcg acaaccagac actggcagtg ctgcgggggcc  1200
336 gcatggtgcg gtacctgatg cgctcgcgtg agatcaccct gggcagagca accaaggata  1260
338 accagattga tgtggacctg tctctggagg gtccggcctg gaagatatcc cggaaacaag  1320
340 gtgtcatcaa gctgaagaac aacggtgatt tcttcattgc caatgagggt cgacggccca  1380
342 tctacatcga tggacggccg gtgctctgtg gctccaaatg gcgcctcagc aacaactctg  1440
344 tggtggagat cgccagcctg cgattcgtct tccttatcaa ccaggacctc attgccctca  1500
346 tcagggctga ggctgccaag atcacaccac agtgaggaat ggtggcagga ctcgtgggcc  1560
348 ctctccggcc tgtttcccct gccactccag ccccttgag ctgggaactc aggctcctgg  1620
350 aaaaacctgg gcagtgggag gctcagctgc gggccattga tttgagcctt tgagggagga  1680
352 tagggctggc ctttgtgaag ccagcagagg ctgagaacct caggcttccc tagatccaga  1740
354 gccccTcccc atcttcctct ctctaaaaac aaccctaccc cccattctac cccccattgc  1800
356 caccttcact cctgtgtctc cagctgatta gcctcagact cttcttttat tgttttttctt  1860
358 ttgtaaataa aaagcaccag gttccaaagt aaaaaaaaaa aaaaaaaact cgag          1914
361 <210> SEQ ID NO: 8
362 <211> LENGTH: 462
363 <212> TYPE: PRT
364 <213> ORGANISM: Murinae gen. sp.
366 <400> SEQUENCE: 8
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371 Gly Thr Ala Ser Arg Ser Glu Asp Glu Glu Ser Leu Ala Gly Gln Lys
372             20                  25                  30
374 Arg Ala Ser Ser Gln Ala Leu Gly Thr Ile Pro Lys Arg Arg Ser Ser
375         35                  40                  45
377 Ser Arg Phe Ile Lys Arg Lys Lys Phe Asp Asp Glu Leu Val Glu Ser
378     50                  55                  60
380 Ser Leu Ala Lys Ser Ser Thr Arg Ala Lys Gly Ala Ser Gly Val Glu
381 65                  70                  75                  80
383 Pro Gly Arg Cys Ser Gly Ser Glu Pro Ser Ser Ser Glu Lys Lys Lys
384             85                  90                  95
386 Val Ser Lys Ala Pro Ser Thr Pro Val Pro Pro Ser Pro Ala Pro Ala
387             100                 105                 110
389 Pro Gly Leu Thr Lys Arg Val Lys Lys Ser Lys Gln Pro Leu Gln Val
390             115                 120                 125
392 Thr Lys Asp Leu Gly Arg Trp Lys Pro Ala Asp Asp Leu Leu Leu Ile
393         130                 135                 140
395 Asn Ala Val Leu Gln Thr Asn Asp Leu Thr Ser Val His Leu Gly Val
396 145                 150                 155                 160
398 Lys Phe Ser Cys Arg Phe Thr Leu Arg Glu Val Gln Glu Arg Trp Tyr
399             165                 170                 175
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VERIFICATION SUMMARY
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